

EAST - [10/2/2000 4:40:51]

File View Edit Tools Window Help

DBs: USPAT, US-PGPUB, EPO, JPO, IBM, TDB

Default operator: OR

Highlight all hit terms initially

((light adj emitting adj diode) or (light-emitting adj diode)) and
(((chang\$4 or var\$5) adj concentration) same ((p-type) or (p adj
type)) adj layer)

US
20040075097
US 6657300
B2
US
20030205736
US
20020053676
US
20020008243
US 6586762
B2

US-PGP 20040422
UB
USPAT 20031202
US-PGP 20031106
UB
US-PGP 20020509
UB
US-PGP 20020124
UB
USPAT 20030701

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Formation of Ohmic contacts in III-nitride light emitting devices
Formation of ohmic contacts in III-nitride light emitting devices
Nitride semiconductor device
Nitride semiconductor device
Formation of ohmic contacts in III-nitride light emitting devices
Nitride semiconductor device with improved lifetime and high output power

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| L Number | Hits | Search Text | DB | Time stamp |
|----------|------|--|---|---------------------|
| - | 20 | goetz-werner-k.in. | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/08/13 16:12 |
| - | 0 | camras-cichael-d.in. | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/08/13 16:12 |
| - | 27 | camras-michael-d.in. | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/08/13 16:12 |
| - | 23 | chen-changhua.in. | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/08/13 16:13 |
| - | 8 | christenson-gina-l.in. | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/08/13 16:13 |
| - | 8 | kern-scott-r.in. | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/08/13 16:13 |
| - | 25 | kuo-chihping.in. | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/08/13 16:13 |
| - | 7 | martin-paul-scott.in. | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/08/13 16:13 |
| - | 58 | steigerwald-daniel-a.in. | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/08/13 16:13 |
| - | 30 | kern-r-scott.in. | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/08/13 16:13 |
| - | 79 | (goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) and (light adj emit\$4 adj diode) | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/08/13 16:13 |
| - | 47 | ((goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) and (light adj emit\$4 adj diode)) and ("GaN") | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/08/13 16:13 |
| - | 45 | ((goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) and (light adj emit\$4 adj diode)) and ("GaN")) and (active adj (plate or layer or region)) | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/08/13 16:13 |

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|---|-----|---|---|-----------------------------|
| - | 405 | <p>((light adj emit\$ adj diode) or (laser adj diode)) and ((p-type) or (p adj type)) with (varying or variation or chang\$4 or increas\$4 or decreas\$4) with concentration)) not ((goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) ((light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ("p-type" or (p adj type)) with ("GaN" or (gallium adj nitride)))) and ("GaN" or (gallium adj nitride)) with concentration with (chang\$4 or vari\$5))) "20040075097" ("5747832" "5753939" "5804839" "5987047" "6005258").PN.) (((goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) and (light adj emit\$4 adj diode)) and ("GaN")) and (active adj (plate or layer or region))) and ("n-type" or (n adj type)) and ("p-type" or (p adj type))) and "II" and "III") and substrate and (contact or electrode)) ("5747832" "5753939" "5804839" "5987047" "6005258").PN.) and (light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ("p-type" or (p adj type))) ((US-6657300-\$ or US-5747832-\$ or US-5804839-\$).did. or (US-20040075097-\$).did.) (((light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ("p-type" or (p adj type)) with ("GaN" or (gallium adj nitride)))) and ("GaN" or (gallium adj nitride)) with concentration with (chang\$4 or vari\$5))) not ("20040075097" ("5747832" "5753939" "5804839" "5987047" "6005258").PN.) (goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) ((US-6657300-\$ or US-5747832-\$ or US-5804839-\$).did. or (US-20040075097-\$).did.))) and (substrate and (contact\$4 or electrode)))</p> | <p>USPAT; US-PGPUB; EPO; JPO; IBM_TDB</p> | <p>2004/08/13 16:22</p> |
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|---|-----|---|---|---------------------|
| - | 169 | (((light adj emit\$ adj diode) or (laser adj diode)) and ((p-type) or (p adj type)) with (varying or variation or chang\$4 or increas\$4 or decreas\$4) with concentration)) not ((goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) ((light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ("p-type" or (p adj type)) with ("GaN" or (gallium adj nitride)))) and ("GaN" or (gallium adj nitride)) with concentration with (chang\$4 or vari\$5)) "20040075097" ("5747832" "5753939" "5804839" "5987047" "6005258").PN.) (((((goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) and (light adj emit\$4 adj diode)) and ("GaN")) and (active adj (plate or layer or region))) and ("n-type" or (n adj type)) and ("p-type" or (p adj type))) and "II" and "III") and substrate and (contact or electrode)) ("5747832" "5753939" "5804839" "5987047" "6005258").PN.) and (light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ("p-type" or (p adj type))) ((US-6657300-\$ or US-5747832-\$ or US-5804839-\$).did. or (US-20040075097-\$).did.) (((light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ("p-type" or (p adj type)) with ("GaN" or (gallium adj nitride)))) and ("GaN" or (gallium adj nitride)) | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/08/13 16:15 |
| - | 11 | with (goetz-werner-k.in. (chang\$4 or vari\$5) michael-d.in. chen-changhua.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) and (light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ("p-type" or (p adj type)) with ("GaN" or (gallium adj nitride)))) and ("GaN" or (gallium adj nitride)) | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/08/13 16:18 |
| - | 4 | US-6657300-\$ or US-5747832-\$ or US-5804839-\$).did. or (US-20040075097-\$).did. and (light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ("p-type" or (p adj type)) with ("GaN" or (gallium adj nitride)))) and ("GaN" or (gallium adj nitride)) | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/08/13 16:18 |
| - | 4 | US-6657300-\$ or US-5747832-\$ or US-5804839-\$).did. or (US-20040075097-\$).did. | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/08/13 16:18 |
| - | 35 | (((light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ("p-type" or (p adj type)) with ("GaN" or (gallium adj nitride)))) and ("GaN" or (gallium adj nitride)) with concentration with (chang\$4 or vari\$5)) not ("20040075097" ("5747832" "5753939" "5804839" "5987047" "6005258").PN.) (goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) ((US-6657300-\$ or US-5747832-\$ or US-5804839-\$).did. or (US-20040075097-\$).did.))) and (substrate and (contact\$4 or electrode)) | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/08/13 16:18 |

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|---|----|--|---|-----------------------------|
| - | 18 | <p>(((((light adj emit\$ adj diode) or (laser adj diode)) and (((p-type) or (p adj type)) with (varying or variation or chang\$4 or increas\$4 or decreas\$4) with concentration)) not ((goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) (((light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and (("p-type" or (p adj type)) with ("GaN" or (gallium adj nitride)))) and (("GaN" or (gallium adj nitride)) with concentration with (chang\$4 or vari\$5))) "20040075097" ("5747832" "5753939" "5804839" "5987047" "6005258").EN.)</p> <p>(((((goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) and (light adj emit\$4 adj diode)) and ("GaN")) and (active adj (plate or layer or region))) and ("n-type" or (n adj type)) and ("p-type" or (p adj type))) and "II" and "III") and substrate and (contact or electrode)) ("5747832" "5753939" "5804839" "5987047" "6005258").PN.)</p> <p>and (light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ("p-type" or (p adj type))) ((US-6657300-\$ or US-5747832-\$ or US-5804839-\$).did. or (US-20040075097-\$).did.) (((light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and (("p-type" or (p adj type)) with ("GaN" or (gallium adj nitride)))) and (("GaN" or (gallium adj nitride)) with concentration with (chang\$4 or vari\$5))) not ("20040075097" ("5747832" "5753939" "5804839" "5987047" "6005258").EN.)</p> <p>(goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) ((US-6657300-\$ or US-5747832-\$ or US-5804839-\$).did. or (US-20040075097-\$).did.)) and (substrate and (contact\$4 or electrode)))) and ("GaN" or (gallium adj nitride)) and substrate and ((active or emit\$4) adj layer)) and (((light adj emit\$ adj diode) or (laser adj diode)).ti. and (((p-type) or (p adj type)) with (varying or variation or chang\$4 or increas\$4 or decreas\$4) with concentration)</p> | <p>USPAT; US-PGPUB; EPO; JPO; IBM_TDB</p> | <p>2004/08/13 16:19</p> |
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|---|-----|--|---|---------------------|
| - | 24 | ((emit\$4 adj diode) and substrate and (((p-type) adj layer) or (p adj type adj layer)) with (contact or electrode)) and ((var\$5 or chang\$4) near2 concentration)) not ((goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) "20040075097" ("5747832" "5753939" "5804839" "5987047" "6005258").PN.) ((((((goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) and (light adj emit\$4 adj diode)) and ("GaN")) and (active adj (plate or layer or region))) and ("n-type" or (n adj type)) and ("p-type" or (p adj type))) and "II" and "III") and substrate and (contact or electrode)) (((("5747832" "5753939" "5804839" "5987047" "6005258").PN.) and (light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ("p-type" or (p adj type))) ((US-6657300-\$ or US-5747832-\$ or US-5804839-\$).did. or (US-20040075097-\$).did.) (((light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ((("p-type" or (p adj type)) with ("GaN" or (gallium adj nitride)))) and ((("GaN" or (gallium adj nitride)) | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/08/13 17:13 |
| - | 6 | with light adj emit\$4 adj diode) and (light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ((("p-type" or (p adj type)) with ("GaN" or (gallium adj nitride)))) and ((("GaN" or (gallium adj nitride)) | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/08/13 16:59 |
| - | 3 | with light adj emit\$4 adj diode) and (light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ((("p-type" or (p adj type)) with ("GaN" or (gallium adj nitride)))) and ((("GaN" or (gallium adj nitride)) | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/08/13 16:59 |
| - | 37 | "LED" and substrate and (((p-type) adj layer) or (p adj type adj layer)) with (contact or electrode)) and ((var\$5 or chang\$4) near2 concentration) | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/08/13 17:12 |
| - | 233 | "LED" and substrate and (((p-type)) or (p adj type)) with (contact or electrode)) and ((var\$5 or chang\$4) near2 concentration) | USPAT; US-PGPUB; EPO; JPO; IBM_TDB | 2004/08/13 17:13 |

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|-----------------------|----------------------|---|---|-----------------------------|
| - | 10 | <p>("LED" and substrate and (((p-type) adj layer) or (p adj type adj layer)) with (contact or electrode)) and ((var\$5 or chang\$4) near2 concentration)) not ((goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) "20040075097" ("5747832" "5753939" "5804839" "5987047" "6005258").PN.)</p> <p>(((((goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) and (light adj emit\$4 adj diode)) and ("GaN")) and (active adj (plate or layer or region))) and ("n-type" or (n adj type)) and ("p-type" or (p adj type))) and "II" and "III") and substrate and (contact or electrode)) ("5747832" "5753939" "5804839" "5987047" "6005258").PN.)</p> <p>and (light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ("p-type" or (p adj type))) ((US-6657300-\$ or US-5747832-\$ or US-5804839-\$).did. or (US-20040075097-\$).did.) (((light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ("p-type" or (p adj type)) with ("GaN" or (gallium adj nitride))) and ("GaN" or (gallium adj nitride)) with concentration with (chang\$4 or vari\$5))) not ("20040075097" ("5747832" "5753939" "5804839" "5987047" "6005258").PN.)</p> <p>(goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) ((US-6657300-\$ or US-5747832-\$ or US-5804839-\$).did. or (US-20040075097-\$).did.)) and (substrate and (contact\$4 or electrode))) (((light adj emit\$ adj diode) or (laser adj diode)) and ((p-type) or (p adj type)) with (varying or variation or chang\$4 or increas\$4 or decreas\$4) with concentration)) not ((goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) ((light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ("p-type" or (p adj type)) with ("GaN" or (gallium adj nitride)))) and ("GaN" or (gallium adj nitride)) with concentration with (chang\$4 or vari\$5))) "20040075097" ("5747832" "5753939" "5804839" "5987047" "6005258").PN.)</p> <p>(((((goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) and (light adj emit\$4 adj diode)) and ("GaN")) and (active adj (plate or layer or region))) and ("n-type" or (n adj type)) and ("p-type" or (p adj type))) and "II" and "III") and substrate and (contact or electrode)) ("5747832" "5753939" "5804839" "5987047" "6005258").PN.)</p> <p>and (light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ("p-type" or (p adj type))) ((US-6657300-\$ or</p> | <p>USPAT; US-PGPUB; EPO; JPO; IBM_TDB</p> | <p>2004/08/13 17:15</p> |
| Search History | 8/16/2004 4:09:02 PM | <p>("5747832" "5753939" "5804839" "5987047" "6005258").PN.)</p> <p>and (light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ("p-type" or (p adj type))) ((US-6657300-\$ or</p> | | |
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| - | 181 | <p>("LED" and substrate and (((p-type)) or (p adj type)) with (contact or electrode)) and ((var\$5 or chang\$4) near2 concentration)) not ((goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) "20040075097" ("5747832" "5753939" "5804839" "5987047" "6005258").PN.)</p> <p>(((((goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) and (light adj emit\$4 adj diode)) and ("GaN")) and (active adj (plate or layer or region))) and ("n-type" or (n adj type)) and ("p-type" or (p adj type))) and "II" and "III") and substrate and (contact or electrode)) ("5747832" "5753939" "5804839" "5987047" "6005258").PN.)</p> <p>and (light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ("p-type" or (p adj type))) ((US-6657300-\$ or US-5747832-\$ or US-5804839-\$).did. or (US-20040075097-\$).did.) (((light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ("p-type" or (p adj type))) with ("GaN" or (gallium adj nitride))) and ("GaN" or (gallium adj nitride)) with concentration with (chang\$4 or vari\$5))) not ("20040075097" ("5747832" "5753939" "5804839" "5987047" "6005258").PN.)</p> <p>(goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) ((US-6657300-\$ or US-5747832-\$ or US-5804839-\$).did. or (US-20040075097-\$).did.)) and (substrate and (contact\$4 or electrode))) (((light adj emit\$ adj diode) or (laser adj diode)) and ((p-type) or (p adj type)) with (varying or variation or chang\$4 or increas\$4 or decreas\$4) with concentration)) not ((goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) ((light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ("p-type" or (p adj type)) with ("GaN" or (gallium adj nitride))) and ("GaN" or (gallium adj nitride)) with concentration with (chang\$4 or vari\$5))) "20040075097" ("5747832" "5753939" "5804839" "5987047" "6005258").PN.)</p> <p>(((((goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) and (light adj emit\$4 adj diode)) and ("GaN")) and (active adj (plate or layer or region))) and ("n-type" or (n adj type)) and ("p-type" or (p adj type))) and "II" and "III") and substrate and (contact or electrode)) ("5747832" "5753939" "5804839" "5987047" "6005258").PN.)</p> <p>and (light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ("p-type" or (p adj type))) ((US-6657300-\$ or US-5747832-\$ or US-5804839-\$).did. or</p> | <p>USPAT; US-PGPUB; EPO; JPO; IBM_TDB</p> | <p>2004/08/13 17:15</p> |
| Search History | 8/16/2014 4:09:04 PM Page 9 | <p>and (light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ("p-type" or (p adj type))) ((US-6657300-\$ or US-5747832-\$ or US-5804839-\$).did. or</p> | | |

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|----------------|-----------------------------|--|---|-----------------------------|
| - | 66 | <p>((("LED" and substrate and (((p-type)) or (p adj type)) with (contact or electrode)) and ((var\$5 or chang\$4) near2 concentration)) not ((goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) "20040075097" ("5747832" "5753939" "5804839" "5987047" "6005258").PN.)</p> <p>(((((goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) and (light adj emit\$4 adj diode)) and ("GaN")) and (active adj (plate or layer or region))) and ("n-type" or (n adj type)) and ("p-type" or (p adj type))) and "II" and "III") and substrate and (contact or electrode))</p> <p>((("5747832" "5753939" "5804839" "5987047" "6005258").PN.) and (light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ("p-type" or (p adj type))) ((US-6657300-\$ or US-5747832-\$ or US-5804839-\$).did. or (US-20040075097-\$).did.) (((light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ("p-type" or (p adj type))) with ("GaN" or (gallium adj nitride))) and ("GaN" or (gallium adj nitride)) with concentration with (chang\$4 or vari\$5))) not ("20040075097" ("5747832" "5753939" "5804839" "5987047" "6005258").PN.)</p> <p>(goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) ((US-6657300-\$ or US-5747832-\$ or US-5804839-\$).did. or (US-20040075097-\$).did.)) and (substrate and (contact\$4 or electrode)))</p> <p>(((((light adj emit\$ adj diode) or (laser adj diode)) and ((p-type) or (p adj type)) with (varying or variation or chang\$4 or increas\$4 or decreas\$4) with concentration)) not ((goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) ((light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ("p-type" or (p adj type)) with ("GaN" or (gallium adj nitride))) and ("GaN" or (gallium adj nitride)) with concentration with (chang\$4 or vari\$5))) "20040075097" ("5747832" "5753939" "5804839" "5987047" "6005258").PN.)</p> <p>(((((goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) and (light adj emit\$4 adj diode)) and ("GaN")) and (active adj (plate or layer or region))) and ("n-type" or (n adj type)) and ("p-type" or (p adj type))) and "II" and "III") and substrate and (contact or electrode))</p> <p>((("5747832" "5753939" "5804839" "5987047" "6005258").PN.) and (light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ("p-type" or (p adj type))) ((US-6657300-\$ or US-5747832-\$ or US-5804839-\$).did. or</p> | <p>USPAT; US-PGPUB; EPO; JPO; IBM_TDB</p> | <p>2004/08/13 17:16</p> |
| Search History | 8/16/04 14:09:02 PM Page 10 | <p>and (light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ("p-type" or (p adj type))) ((US-6657300-\$ or US-5747832-\$ or US-5804839-\$).did. or</p> | | |

| | | | | |
|----------------|--------------------|--|---|-----------------------------|
| - | 66 | <p>((("LED" and substrate and (((p-type) or (p adj type)) with (contact or electrode)) and ((var\$5 or chang\$4) near2 concentration)) not ((goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) "20040075097" ((("5747832" "5753939" "5804839" "5987047" "6005258").PN.) ((((((goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) and (light adj emit\$4 adj diode)) and ("GaN")) and (active adj (plate or layer or region))) and ("n-type" or (n adj type)) and ("p-type" or (p adj type))) and "II" and "III") and substrate and (contact or electrode)) (((("5747832" "5753939" "5804839" "5987047" "6005258").PN.) and (light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ("p-type" or (p adj type))) ((US-6657300-\$ or US-5747832-\$ or US-5804839-\$).did. or (US-20040075097-\$).did.) (((light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ("p-type" or (p adj type))) with ("GaN" or (gallium adj nitride))) and (("GaN" or (gallium adj nitride)) with concentration with (chang\$4 or vari\$5))) not ("20040075097" ((("5747832" "5753939" "5804839" "5987047" "6005258").PN.) (goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) ((US-6657300-\$ or US-5747832-\$ or US-5804839-\$).did. or (US-20040075097-\$).did.))) and (substrate and (contact\$4 or electrode))) ((((((light adj emit\$ adj diode) or (laser adj diode)) and (((p-type) or (p adj type)) with (varying or variation or chang\$4 or increas\$4 or decreas\$4) with concentration)) not ((goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) ((light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ("p-type" or (p adj type)) with ("GaN" or (gallium adj nitride))) and (("GaN" or (gallium adj nitride)) with concentration with (chang\$4 or vari\$5))) "20040075097" ((("5747832" "5753939" "5804839" "5987047" "6005258").PN.) ((((((goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) and (light adj emit\$4 adj diode)) and ("GaN")) and (active adj (plate or layer or region))) and ("n-type" or (n adj type)) and ("p-type" or (p adj type))) and "II" and "III") and substrate and (contact or electrode)) (((("5747832" "5753939" "5804839" "5987047" "6005258").PN.) and (light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ("p-type" or (p adj type))) ((US-6657300-\$ or US-5747832-\$ or US-5804839-\$).did. or</p> | <p>USPAT; US-PGPUB; EPO; JPO; IBM_TDB</p> | <p>2004/08/13 17:17</p> |
| Search History | 8/16/04 4:08:02 PM | <p>and (light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ("p-type" or (p adj type))) ((US-6657300-\$ or US-5747832-\$ or US-5804839-\$).did. or</p> | | |

| | | | | |
|----------------|--------------------|---|---|-----------------------------|
| - | 66 | <p>((("LED" and substrate and (((p-type)) or (p adj type)) with (contact or electrode)) and ((var\$5 or chang\$4) near2 concentration)) not ((goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) "20040075097" ("5747832" "5753939" "5804839" "5987047" "6005258").PN.)</p> <p>(((((goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) and (light adj emit\$4 adj diode)) and ("GaN")) and (active adj (plate or layer or region))) and ("n-type" or (n adj type)) and ("p-type" or (p adj type))) and "II" and "III") and substrate and (contact or electrode))</p> <p>((("5747832" "5753939" "5804839" "5987047" "6005258").PN.) and (light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ("p-type" or (p adj type))) ((US-6657300-\$ or US-5747832-\$ or US-5804839-\$).did. or (US-20040075097-\$).did.) (((light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ("p-type" or (p adj type)) with ("GaN" or (gallium adj nitride))) and ("GaN" or (gallium adj nitride)) with concentration with (chang\$4 or vari\$5))) not ("20040075097" ("5747832" "5753939" "5804839" "5987047" "6005258").PN.)</p> <p>(goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) ((US-6657300-\$ or US-5747832-\$ or US-5804839-\$).did. or (US-20040075097-\$).did.)) and (substrate and (contact\$4 or electrode)))</p> <p>(((((light adj emit\$ adj diode) or (laser adj diode)) and (((p-type) or (p adj type)) with (varying or variation or chang\$4, or increas\$4 or decreas\$4) with concentration)) not ((goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) ((light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ("p-type" or (p adj type)) with ("GaN" or (gallium adj nitride)))) and ("GaN" or (gallium adj nitride)) with concentration with (chang\$4 or vari\$5))) "20040075097"</p> <p>((("5747832" "5753939" "5804839" "5987047" "6005258").PN.)</p> <p>(((((goetz-werner-k.in. camras-michael-d.in. chen-changhua.in. christenson-gina-l.in. kern-scott-r.in. kuo-chihping.in. martin-paul-scott.in. steigerwald-daniel-a.in. kern-r-scott.in.) and (light adj emit\$4 adj diode)) and ("GaN")) and (active adj (plate or layer or region))) and ("n-type" or (n adj type)) and ("p-type" or (p adj type))) and "II" and "III") and substrate and (contact or electrode))</p> <p>((("5747832" "5753939" "5804839" "5987047" "6005258").PN.) and (light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ("p-type" or (p adj type))) ((US-6657300-\$ or US-5747832-\$ or US-5804839-\$).did. or</p> | <p>USPAT; US-PGPUB; EPO; JPO; IBM_TDB</p> | <p>2004/08/13 17:18</p> |
| Search History | 8/16/04 4:08:02 PM | <p>and (light adj emit\$4 adj diode) and ("n-type" or (n adj type)) and ("p-type" or (p adj type))) ((US-6657300-\$ or US-5747832-\$ or US-5804839-\$).did. or</p> | | |